510(K) SUMMARY

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR §807.92.

The assigned 510(k) number is: K132341.

AUG 1 5 2013

1. Submitter:

Shenzhen Mindray Bio-medical Electronics Co., LTD Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, Shenzhen, 518057, P. R. China

Tel: +86 755 8188 5604 Fax: +86 755 2658 2680

Contact Person:

Zhai Pei Shenzhen Mindray Bio-medical Electronics Co., LTD Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, Shenzhen, 518057, P. R. China

Date Prepared: May 22, 2013

2. Device Name: DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic

Ultrasound System

Classification

Regulatory Class: II Review Category: Tier II

21 CFR 892.1550 Ultrasonic Pulsed Doppler Imaging System (90-IYN)

21 CFR 892.1560 Ultrasonic Pulsed Echo Imaging System (90-IYO)

21 CFR 892.1570 Diagnostic Ultrasound Transducer (90-ITX)

3. Device Description:

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System is a general purpose, mobile, software controlled, ultrasound diagnostic system. Its function is to acquire and display ultrasound images in B-mode, M-mode, PW-mode, CW mode, Color-mode, Color m-Mode, Power/Dirpower mode, TDI mode, 3D/4D mode,

Page 1 of 4

Elastography or the combined mode (i.e. B/M-mode). This system is a Track 3 device that employs an array of probes that include linear array, convex array and phased array with a frequency range of approximately 3 MHz to 10.0 MHz.

4. Intended Use:

The DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System is applicable for adults, pregnant women, pediatric patients and neonates. It is intended for use in fetal, abdominal, pediatric, small organ (breast, thyroid, testes), neonatal cephalic, adult cephalic, trans-rectal, trans-vaginal, musculo-skeletal (conventional, superficial), cardiac adult, cardiac pediatric, peripheral vessel, urology and transesophageal (Cardiac) exams.

5. Summary of Modifications and Newly Added Features

This submission device is a modification to DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System previously cleared in K123185.

The following is a brief overview of the modifications and newly added features. Detailed information is found in 003_Device Description of this submission, while section 005_Comparison to Legally Marketed Device includes a discussion of substantial equivalence with the predicate device(s).

■ Newly added transducers

P7-3E

P10-4E

P7-3TE

CW2s

CW5s

P4-2NE

CB10-4E

Newly added needle-guided brackets

NGB-020

NGB-021

Newly added software options

LVO (Left Ventricular Opacification)

Smart Volume

Smart NT

Stress Echo

Tissue Tracking QA

UltraView

Other software modifications

Strain

Strain Rate

Color STIC

HR Flow

Color Smart 3D

Echo Boost

Newly added calculation formulas

Velocity Ratio

RAR

SMA/Ao

CA/Ao

Trace

Spline

Qp/Qs

Qp-Qs

VTI Ratio

All of the above modifications and newly added features have been compared with the predicate devices. The results show that these modifications and newly added features are substantially equivalent to the predicate devices.

6. Comparison with Predicate Devices:

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System is comparable with and substantially equivalent to these predicate devices:

Predicate Device	Manufacturer	Model	510(k) Number
1	Mindray	DC-8 (Main predicate device)	K123185
2	Mindray	M7	K121010
3	Mindray	DC-T6	K120699
4	GE	Vivid E9	K120201
5	SIEMENS	ACUSON S2000	K112596
6	GE	Voluson E8	K101236

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System employs the same technology as the predicate devices. All systems transmit ultrasonic energy into patients, then perform post processing of received echoes to generate onscreen display of anatomic structures and fluid flow within the body. All systems allow for specialized measurements of structures and flow, and calculations. The subject device also has the same intended uses and basic operating modes as the predicate devices.

7. Non-clinical Tests:

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System has been evaluated for acoustic output, biocompatibility, cleaning and disinfection effectiveness as well as thermal, electrical and mechanical safety, and has been found to conform with applicable medical safety standards.

Non-clinical tests relied on in this premarket notification submission for a determination of substantial equivalence include testing showing compliance with the following standards:

- AAMI/ANSI ES60601-1: Medical electrical equipment Part 1: General requirements for basic safety and essential performance
- 1EC 60601-1-2: Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance Collateral standard: Electromagnetic compatibility Requirements and tests (Edition 3)
- IEC 60601-2-37: Medical electrical equipment Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment
- IEC 62304: Medical device software Software life cycle processes
- IEC 62366: Medical devices Application of usability engineering to medical devices
- ISO14971: Medical devices Application of risk management to medical devices
- UD 2: Acoustic Output Measurement Standard for Diagnostic Ultrasound Equipment Revision 3
- UD 3: Standard for Real Time Display of Thermal and Mechanical Acoustic Output Indices on Diagnostic Ultrasound Equipment
- ISO 10993-1: Biological evaluation of medical devices -- Part 1: Evaluation and testing within a risk management process

8. Clinical Tests:

Not Applicable.

Conclusion:

Intended uses and other key features are consistent with traditional clinical practices, FDA guidelines and established methods of patient examination. The design, development and quality process of the manufacturer confirms with 21 CFR 820, ISO 9001 and ISO 13485 quality systems. The device conforms to applicable medical device safety standards. Therefore, the DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System is substantially equivalent with respect to safety and effectiveness to devices currently cleared for market.



Food and Drug Administration 10903 New Hampshire Avenue Document Control Center – WO66-G609 Silver Spring, MD 20993-0002

August 15, 2013

SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD. % MARK JOB
RESPONSIBLE THIRD PARTY OFFICIAL
REGULATORY TECHNOLOGY SERVICES, LLC
1394 25TH STREET NW
BUFFALO MN 55313

Re: K132341

Trade/Device Name: DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic

Ultrasound System

Regulation Number: 21 CFR 892.1550

Regulation Name: Ultrasonic pulsed doppler imaging system

Regulatory Class: II

Product Code: IYN, IYO, and ITX

Dated: July 25, 2013 Received: July 26, 2013

Dear Mr. Job:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

This determination of substantial equivalence applies to the following transducers intended for use with the <u>DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System</u>, as described in your premarket notification:

	<u>Transducer Model Number</u>	
<u>C5-2E</u>	<u>D8-3E</u>	<u>P10-4E</u>
<u>C7-3E</u>	<u>V11-3E</u>	<u>P7-3TE</u>
<u>L12-3E</u>	<u>C11-3E</u>	CW2s
<u>L14-6NE</u>	<u>DE10-3E</u>	CW5s
<u>L14-6WE</u>	<u>V11-3BE</u>	<u>P7-3E</u>
<u>P4-2E</u>	<u>V11-3WE</u>	<u>P4-2NE</u>
<u>D6-2E</u>	<u>L7-3E</u>	CB10-4E

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638 2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Janine M. Morris

Director, Division of Radiological Health Office of In Vitro Diagnostics

and Radiological Health

Center for Devices and Radiological Health

for

Enclosure

Indications for Use

510(k) Number (if known): **K32341** K132341 Device Name: DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System Indications for Use: The DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System is applicable for adults, pregnant women, pediatric patients and neonates. It is intended for use in fetal, abdominal, pediatric, small organ (breast, thyroid, testes), neonatal cephalic, adult cephalic, trans-rectal, trans-vaginal, musculo-skeletal (conventional, superficial), cardiac adult, cardiac pediatric, peripheral vessel, urology and transesophageal (Cardiac) exams. Prescription Use X AND/OR Over-The-Counter Use (Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C) (PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED) Concurrence of CDRH, Office of In Vitro Diagnostics and Radiological Health (OIR) (Division Sign-Off)

Division of Radiological Health
Office of In Vitro Diagnostics and Radiological Health

510(k)

Page 1 of 23

Diagnostic Ultrasound Indications For Use Format

System:

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer: N/A

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

intended Use:	Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:											
Clinical Applicat	tion	Mode of Operation										
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)			
Ophthalmic	Ophthalmic			-								
	Fetal	P	P	P		P	P	P	Note 1, 2,3, 4,6,7			
	Abdominal	P	P	P	P	P	P	P	Note 1, 2,3, 4,5,6,7			
	Intra-operative (Specify*)											
	Intra-operative (Neuro)											
	Laparoscopic		<u> </u>									
	Pediatric	P	P	P	P	P	P	P	Note 1, 2,3, 4,5,6,7			
	Small Organ (Specify**)	P	P	P		P	P	P	Note 1,2, 4,6,7,8			
	Neonatal Cephalic	P	P	P	P	P	P	P	Note 1, 2,4,5,6,7			
Other	Adult Cephalic	P	P	P	P	P	P	P	Note 1, 2,4,5,6,7			
	Trans-rectal	P	P	P		P	P	P	Note 1, 2,3, 4,6,7			
	Trans-vaginal	P	P	P		P	P	P	Note 1, 2,3, 4,6,7			
	Trans-urethral											
	Trans-esoph. (non-Card.)											
	Musculo-skeletal (Conventional)	P	P	P	N	P	P	P	Note 1, 2, 4,6,7			
	Musculo-skeletal (Superficial)	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Intravascular											
	Cardiac Adult	P	P	P	P	P	P	P	Note 1, 2,4,5,6,7,9			
	Cardiac Pediatric	Р	P	P	P	P	P	P	Note 1, 2,4,5,6,7			
Cardiac	Intravascular (Cardiae)								**			
	Trans-esoph. (Cardiac)	N	Ŋ	N	N	N	N	N	Note 1, 4,5,6			
	Intra-cardiac											
-	Peripheral vessel	P	P	P	N	P	P	P	Note 1, 2, 4,6,7			
vessel	Other (Specify***)	P	P	P		P	P	P	Note 1, 2, 4,6,7			

N=new indication: P=previously cleared by FDA; E=added under Appendix E

The state of the s
ditional comments: Combined modesB+M、PW+B、Color + B、Power + B、PW +Color+B、Power + PW +B
*Intraoperative includes abdominal, thoracic, and vascular.
**Small organ-breast, thyroid, testes.
***Other use includes Urology.
Note 1: Tissue Harmonic Imaging.
Note 2: Smart3D
Note 3: 4D(Real-time 3D)
Note 4: iScape
Note 5: TDI
Note 6: Color M
Note 7: Biopsy Guidance

Note 9: Contrast imaging(contrast agent for LVO)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

Concurrence of CDRH, Office of In Vitro Diagnostics and Radiological Health (OIR)

Note 8: Elastography

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

C5-2E

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application			Mode of Operation									
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)			
Ophthalmic	Ophthalmic											
	Fetal	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Abdominal	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Intra-operative (Specify*)											
	Intra-operative (Neuro)											
	Laparoscopic											
	Pediatric	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Small Organ (Specify**)											
	Neonatal Cephalic											
Other	Adult Cephalic											
	Trans-rectal											
	Trans-vaginal		<u> </u>									
	Trans-urethral			<u></u>								
	Trans-esoph. (non-Card.)											
	Musculo-skeletal (Conventional)	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Musculo-skeletal (Superficial)											
	Intravascular											
	Cardiac Adult											
	Cardiac Pediatric											
Cardiac	Intravascular (Cardiac)											
	Trans-esoph. (Cardiac)											
	Intra-cardiac											
Peripheral	Peripheral vessel	P	P	P		P	P	Р	Note 1, 2, 4,6,7			
vessel	Other (Specify***)											

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments: Combined modes—B+M, PW+B, Color + B, Power + B, PW + Color + B, Power + PW + B,

*Intraoperative includes abdominal, thoracic, and vascular.

**Small organ-breast, thyroid, testes.

***Other use includes Urology.

Note 1: Tissue Harmonic Imaging.

Note 2: Smart3D

Note 3: 4D(Real-time 3D)

Note 4: iScape

Note 5: TDI

Note 6: Color M

Note 7: Biopsy Guidance

Note 8: Elastography
Note 9: Contrast imaging(contrast agent for LVO)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer: C

C7-3E

Intended Use:

Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation									
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)		
Ophthalmic	Ophthalmic								***************************************		
	Fetal	P	P	P		P	P	P	Note 1, 2, 4,6,7		
	Abdominal	P	P	P		P	P	P	Note 1, 2, 4,6,7		
	Intra-operative (Specify*)								•		
	Intra-operative (Neuro)										
	Laparoscopic										
	Pediatric	P	P	P		P	P	P	Note 1, 2, 4,6,7		
	Small Organ (Specify**)						**				
Fetal Imaging &	Neonatal Cephalic										
Other	Adult Cephalic				· · · · · · · · · · · · · · · · · · ·						
	Trans-rectal										
	Trans-vaginal										
	Trans-urethral										
	Trans-csoph. (non-Card.)										
	Musculo-skeletal (Conventional)										
	Musculo-skeletal (Superficial)										
	Intravascular										
	Cardiac Adult										
	Cardiac Pediatric										
Cardiac	Intravascular (Cardiac)										
	Trans-esoph. (Cardiac)										
	Intra-cardiac										
Peripheral	Peripheral vessel	P	P	P		P	P	P	Note 1, 2, 4,6,7		
vessel	Other (Specify***)										

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments: Combined modes—B+M, PW+B, Color+B, Power+B, PW+Color+B, Power+PW+B.
*Intraoperative includes abdominal, thoracic, and vascular.
**Small organ-breast, thyroid, testes.
***Other use includes Urology.
Note 1: Tissue Harmonic Imaging.
Note 2: Smart3D
Note 3: 4D(Real-time 3D)
Note 4: iScape
Note 5: TDI
Note 6: Color M
Note 7: Biopsy Guidance
Note 8: Elastography
Note 9: Contrast imaging(contrast agent for LVO)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

System: DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer: L12-3E

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation									
General (Track i Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)		
Ophthalmic	Ophthalmic										
_	Fetal										
	Abdominal	P	P	P		P	P	P	Note 1, 2, 4,6,7		
	Intra-operative (Specify*)										
	Intra-operative (Neuro)			L							
	Laparoscopic ·										
	Pediatric	P	P	P		P	P	P	Note 1, 2, 4,6,7		
	Small Organ (Specify**)	P	P	P		P	P	P	Note 1,2, 4,6,7,8		
Fetal Imaging &	Neonatal Cephalic	P	P	P		P	P	P	Note 1, 2, 4,6,7		
Other	Adult Cephalic							Ī			
	Trans-rectal										
	Tranș-vaginal										
	Trans-urethral										
	Trans-esoph. (non-Card.)										
	Musculo-skeletal (Conventional)	P	P	P		P	P	P	Note 1, 2, 4,6,7		
	Musculo-skeletal (Superficial)	P	Р	P		P	P	P	Note 1, 2, 4,6,7		
	Intravascular										
	Cardiac Adult										
	Cardiac Pediatric										
Cardiac	Intravascular (Cardiac)										
	Trans-esoph. (Cardiac)										
	Intra-cardiac										
Peripheral	Peripheral vessel	P	P	P		P	P	P	Note 1, 2, 4,6,7		
vessel	Other (Specify***)										

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments: Co	mbined modes—B+M、PW+B、Color + B、Power + B、PW +Color+ B、Power + PW +B.
*Intraoperative	includes abdominal, thoracic, and vascular.
**Small organ-	breast, thyroid, testes.
***Other use in	ncludes Urology.
Note 1: Tissue	Harmonic Imaging.
Note 2: Smart3	D
Note 3: 4D(Rea	l-time 3D)
Note 4: iScape	
Note 5: TDI	
Note 6: Color N	1
Note 7: Biopsy	Guidance
Note 8: Elastog	raphy
Note 9: Contras	t imaging(contrast agent for LVO)
(PLEASE DO NOT WRIT	E BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

L14-6NE

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

C	linical Application	Mode of Operation									
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)		
Ophthalmic	Ophthalmic										
	Fetal							·			
	Abdominal	P	P	P		P	P	P	Note 1,2, 4,6,7		
	Intra-operative (Specify*)										
	Intra-operative (Neuro)										
	Laparoscopic										
	Pediatric	P	P	P		P	P	P	Note 1,2, 4,6,7		
	Small Organ (Specify**)	P	P	P		P	P	P	Note 1,2, 4,6,7.8		
	Neonatal Cephalic	P	P	P		P	P	P	Note 1,2, 4,6,7		
Other	Adult Cephalic										
	Trans-rectal										
	Trans-vaginal										
	Trans-urethral			i							
	Trans-esoph. (non-Card.)										
	Musculo-skeletal (Conventional)	P	P	P		P	P	P	Note 1,2, 4,6,7		
	Musculo-skeletal (Superficial)	P	P	P	:	P	P	P	Note 1,2, 4,6,7		
	Intravascular										
	Cardiae Adult										
	Cardiac Pediatric										
Cardiac	Intravascular (Cardiac)			<u> </u>							
	Trans-esoph. (Cardiac)										
	Intra-cardiac										
Peripheral	Peripheral vessel	P	P	P		P	P	P	Note 1,2, 4,6,7		
vessel	Other (Specify***)										

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments: Combined modesB+M、PW+B、Color+B、Power+B、PW+Color+B、Power+PW+B.
*Intraoperative includes abdominal, thoracic, and vascular.
**Small organ-breast, thyroid, testes.
***Other use includes Urology.
Note 1: Tissue Harmonic Imaging.
Note 2: Smart3D
Note 3: 4D(Real-time 3D)
Note 4: iScape
Note 5: TDI
Note 6: Color M
Note 7: Biopsy Guidance
Note 8: Elastography
Note 9: Contrast imaging(contrast agent for LVO)
(DI EASE DO NOT UDITE DELOW THIS LDIE CONFIDER ON ANOTHER DAGE ATERDED)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

L14-6WE

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	linical Application		Mode of Operation										
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)				
Ophthalmic	Ophthalmic	l											
	Fetal		L						<u> </u>				
	Abdominal	P	P	P		P	P	P	Note 1,2, 4,6,7				
	Intra-operative (Specify*)												
	Intra-operative (Neuro)												
	Laparoscopic												
	Pediatric	P	P	P		P	P	Р	Note 1,2, 4,6,7				
	Small Organ (Specify**)	P	P	P		P	P	P	Note 1,2, 4,6,7,8				
Fetal Imaging &	Neonatal Cephalic	P	P	P		P	P	P	Note 1,2, 4,6,7				
Other	Adult Cephalic												
	Trans-rectal												
	Trans-vaginal												
	Trans-urethral												
	Trans-esoph. (non-Card.)												
	Musculo-skeletal (Conventional)	P	P	P		P	P	P	Note 1,2, 4,6,7				
	Musculo-skeletal (Superficial)	P	P	P		P	P	P	Note 1,2, 4,6,7				
	Intravascular												
	Cardiac Adult												
	Cardíac Pediatric												
Cardiac	Intravascular (Cardiac)												
	Trans-esoph. (Cardiac)												
	Intra-cardiac												
Peripheral	Peripheral vessel	P	P	P		P	P	P	Note 1,2, 4,6,7				
vessel	Other (Specify***)												

N=new indication: P=previously cleared by FDA: E=added under Appendix E

*Intraoperative includes abdominal, thoracic, and vascular.
**Small organ-breast, thyroid, testes.
***Other use includes Urology.
Note 1: Tissue Harmonic Imaging.
Note 2: Smart3D
Note 3: 4D(Real-time 3D)
Note 4: iScape
Note 5: TDI
Note 6: Color M
Note 7: Biopsy Guidance
Note 8: Elastography
Note 9: Contrast imaging(contrast agent for LVO)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	linical Application	Mode of Operation										
General (Track l Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)			
Ophthalmic	Ophthalmic											
	Fetal								•			
	Abdominal	P	P	P	P	P	P	P	Note 1, 2,4,5,6,7			
	Intra-operative (Specify*)						_					
	Intra-operative (Neuro)		<u> </u>									
	Laparoscopic											
	Pediatric	P	P	P	P	P	P	P	Note 1, 2,4,5,6,7			
	Small Organ (Specify**)				-							
Fetal Imaging &	Neonatal Cephalic	P	P	P	P	P	P	P	Note 1, 2,4,5,6,7			
Other	Adult Cephalic	P	P	P	P	P	P	P	Note 1, 2,4,5,6,7			
	Trans-rectal											
	Trans-vaginal											
	Trans-urethral											
	Trans-esoph. (non-Card.)		-									
	Musculo-skeletal (Conventional)											
	Musculo-skeletal (Superficial)											
	Intravascular											
	Cardiac Adult	P	P	P	P	P	P	P	Note 1, 2,4,5,6,7			
	Cardiac Pediatric	P	P	P	P	P	P	P	Note 1, 2,4,5,6,7			
Cardiac	Intravascular (Cardiac)											
	Trans-esoph. (Cardiac)											
	Intra-cardiac											
Peripheral	Peripheral vessel		L									
vessel	Other (Specify***)											
	n: P=previously cleared by FDA:											
	nents: Combined modesB+M. I					er + B 、 PV	W +Color+ I	3、Power+	PW +B.			
	zoperative includes abdominal, tho	тасіс	, and	vascula	Γ.							
	all organ-breast, thyroid, testes.											
	ther use includes Urology.											
Note	1: Tissue Harmonic Imaging.							•				
Note	2: Smart3D											
Note	3: 4D(Real-time 3D)											
Note	4: iScape								-,			
Note	5: TDI								****			
Note	6: Color M											
Note	7: Biopsy Guidance											

Note 8: Elastography Note 9: Contrast imaging(contrast agent for LVO)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

D6-2E

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Clinical Application					Mode	e of Operation	n	
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)
Ophthalmic	Ophthalmic		L.						
	Fetal	P	P	P		P	P	P	Note1,2, 3, 4,6,7
	Abdominal	P	P	P		P	P	P	Note1,2, 3, 4,6,7
	Intra-operative (Specify*)								
	Intra-operative (Neuro)								
	Laparoscopic		<u> </u>						
	Pediatric	P	P	P		P	P	P	Note1,2, 3, 4,6,7
	Small Organ (Specify**)							,	
etal Imaging &	Neonatal Cephalic								
Other	Adult Cephalic								
	Trans-rectal								
	Trans-vaginal								
•	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)								
	Intravascular								
•	Cardiac Adult								
	Cardiac Pediatric								
Cardiac	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)								
_	Intra-cardiac								·-···
Peripheral	Peripheral vessel								
ressel	Other (Specify***)								
-new indicatio	n; P=previously cleared by FDA;	E=a	ıdded	under A	\ppendi	хE		-	
dditional comn	nents: Combined modesB+M、P	W+E	3、Co	olor + B	、 Powe	r + B、PV	V +Color+ B	Nower+1	PW +B.

Additional comments: Combined modes—B+M、PW+B、Color+B、Power+B、PW+Color+B、Power+PW+B.
*Intraoperative includes abdominal, thoracic, and vascular.
**Small organ-breast, thyroid, testes.
***Other use includes Urology.
Note 1: Tissue Harmonic Imaging.
Note 2: Smart3D
Note 3: 4D(Real-time 3D)
Note 4: iScape
Note5: TDI
Note 6: Color M
Note 7: Biopsy Guidance
Note 8: Elastography
Note 9: Contrast imaging(contrast agent for LVO)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

D8-3E

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

C	linical Application	Mode of Operation									
General (Track l Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)		
Ophthalmic	Ophthalmic										
	Fetal	P	P	P		P	P	P	Note1,2, 3, 4,6		
	Abdominal	P	P	P		P	P	P	Note1,2, 3, 4,6		
	Intra-operative (Specify*)										
	Intra-operative (Neuro)			· · · · ·							
	Laparoscopic										
	Pediatric	P	P	P		P	P	P	Note1,2, 3, 4,6		
	Small Organ (Specify**)										
etal Imaging &	Neonatal Cephalic										
Other	Adult Cephalic										
	Trans-rectal								•••••		
	Trans-vaginal										
	Trans-urethral										
	Trans-esoph. (non-Card.)										
	Musculo-skeletal (Conventional)										
	Musculo-skeletal (Superficial)										
	Intravascular										
	Cardiac Adult								•		
	Cardiac Pediatric										
Cardiac	Intravascular (Cardiac)										
	Trans-esoph. (Cardiac)										
	Intra-cardiac										
Peripheral	Peripheral vessel										
/essel	Other (Specify***)										
	n; P=previously cleared by FDA;										
	nents: Combined modes-B+M. F					r+B、PV	V +Color+ B	3. Power + 1	PW +B		
· · · · · · · · · · · · · · · · · · ·	aoperative includes abdominal, tho all organ-breast, thyroid, testes.	racic,	ana '	vascular	· · · · · · · · · · · · · · · · · · ·			···			
	ther use includes Urology.										
	1: Tissue Harmonic Imaging.										
	2: Smart3D										
Note	3: 4D(Real-time 3D)								· · · · · · · · · · · · · · · · · · ·		
	4: iScape										
Note:	5: TDI										
Note	6: Color M					 -					
Note '	7: Biopsy Guidance										
Note	8: Elastography										
								· · · · · · · · · · · · · · · · · · ·			
Note :	9: Contrast imaging(contrast agent	for L	VO)								

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

V11-3E

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Clinical Application	Mode of Operation										
General (Track	Specific (Track I & 3)	В	М	PWD	CWD	Color	Amplitude	Combined	Other (specify)			
l Only)			177	. ""	CND	Doppler	Doppler	(specify)	Outer (specify)			
Ophthalmic	Ophthalmic							İ				
	Fetal	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Abdominal											
	Intra-operative (Specify*)		<u></u>									
	Intra-operative (Neuro)											
	Laparoscopic											
	Pediatric	Ĺ										
	Small Organ (Specify**)											
	Neonatal Cephalic								· · · · · · · · · · · · · · · · · · ·			
Other	Adult Cephalic											
	Trans-rectal	P	Р	P		P	P	P	Note 1, 2, 4,6,7			
	Trans-vaginal	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Trans-urethral											
	Trans-esoph. (non-Card.)											
	Musculo-skeletal (Conventional)											
	Musculo-skeletal (Superficial)								•			
	Intravascular											
	Cardiac Adult											
	Cardíac Pediatric											
Cardiac	Intravascular (Cardiac)											
	Trans-esoph. (Cardiac)											
	Intra-cardiac											
Peripheral	Peripheral vessel											
vessel	Other (Specify***)	P	P	P		P	P	P	Note 1, 2, 4,6,7			
N=new indicatio	n: P=previously cleared by FDA:	E=a	added	under A	ppendi	хE						
	nents: Combined modes-B+M, I					r+B、PV	V +Color+ E	Rower+	PW +B.			
	aoperative includes abdominal, tho	тасіс,	and	vascular	:							
**Sn	nall organ-breast, thyroid, testes.											
***O	ther use includes Urology.								<u> </u>			
Note	1: Tissue Harmonic Imaging.											
Note	2: Smart3D								·			
Note	3: 4D(Real-time 3D)											
	1 :5			•			-					
Note	4: iScape											

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

Concurrence of CDRH, Office of In Vitro Diagnostics and Radiological Health (OIR)

Note 9: Contrast imaging(contrast agent for LVO)

Note 6: Color M

Note 7: Biopsy Guidance

Note 8: Elastography

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

C11-3E

Intended Use: Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

C	linical Application	Mode of Operation										
General (Track I Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)			
Ophthalmic	Ophthalmic			""-								
	Fetal											
	Abdominal	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Intra-operative (Specify*)								_			
	Intra-operative (Neuro)											
	Laparoscopic							_				
	Pediatric	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Small Organ (Specify**)											
Fetal Imaging &	Neonatal Cephalic	P	P	P		P	P	P	Note 1, 2, 4,6,7			
Other	Adult Cephalic											
ļ	Trans-rectal											
	Trans-vaginal							ĺ				
	Trans-urethral							•				
	Trans-esoph. (non-Card.)											
	Musculo-skeletal (Conventional)			· -								
	Musculo-skeletal (Superficial)											
	Intravascular											
	Cardiac Adult	P	P	P		P	P	P	Note 1, 2, 4,6,7			
	Cardiac Pediatric	P	P	P		P	P	P	Note 1, 2, 4,6,7			
Cardiac	Intravascular (Cardiac)											
	Trans-esoph. (Cardiac)											
	Intra-cardiac							i	- · · · · · · · · · · · · · · · · · · ·			
Peripheral	Peripheral vessel	P	P	P		P	P	P	Note 1, 2, 4,6,7			
vessel	Other (Specify***)											

N=new indication; P=previously cleared by FDA; E=added under Appendix E

Additional con	nments: Combined modesB+M, PW+B, Color + B, Power + B, PW +Color+ B, Power + PW +B.
*Ir	straoperative includes abdominal, thoracic, and vascular.
**9	small organ-breast, thyroid, testes.
***	Other use includes Urology.
Not	e 1: Tissue Harmonic Imaging.
Not	e 2: Smart3D
Not	e 3: 4D(Real-time 3D)
Not	e 4: iScape
Not	e 5: TDI
Not	e 6: Color M
Not	e 7: Biopsy Guidance
Not	e 8: Elastography
Not	e 9: Contrast imaging(contrast agent for LVO)
PLEASE DO	NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

DE10-3E

Intended Use:

Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

C	linical Application	Mode of Operation										
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)			
Ophthalmic	Ophthalmic											
	Fetal	P	P	P		P	P	P	Note 1, 2, 3,4,6,7			
	Abdominal											
	Intra-operative (Specify*)											
	Intra-operative (Neuro)		L									
	Laparoscopic											
	Pediatric											
i	Small Organ (Specify**)											
Fetal Imaging &	Neonatal Cephalic											
Other	Adult Cephalic											
	Trans-rectal	P	P	P		P	P	P	Note 1, 2, 3,4,6,7			
	Trans-vaginal	P	P	P		P	P	P	Note 1, 2, 3,4,6,7			
	Trans-urethral											
	Trans-esoph. (non-Card.)											
	Musculo-skeletal (Conventional)											
	Musculo-skeletal (Superficial)											
	Intravascular											
	Cardiac Adult											
	Cardiac Pediatric											
Cardiac	Intravascular (Cardiac)											
	Trans-esoph. (Cardiac)											
	Intra-cardiac											
Peripheral	Peripheral vessel											
vessel	Other (Specify***)								-			

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments: Combined modes—B+M、PW+B、Color + B、Power + B、PW +Color+ B、Power + PW +B.
Intraoperative includes abdominal, thoracic, and vascular.
**Small organ-breast, thyroid, testes.
***Other use includes Urology.
Note 1: Tissue Harmonic Imaging.
Note 2: Smart3D
Note 3: 4D(Real-time 3D)
Note 4: iScape
Note 5: TDI
Note 6: Color M
Note 7: Biopsy Guidance
Note 8: Elastography
Note 9: Contrast imaging(contrast agent for LVO)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

V11-3BE

Intended Use: Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

C	linical Application					Mode	e of Operation	on	
General (Track l Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)
Ophthalmic	Ophthalmic								•
	Fetal	P	P	P		P	P	P	Note 1, 2, 4,6,7
	Abdominal								
	Intra-operative (Specify*)					·			
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric								
	Small Organ (Specify**)								
Fetal Imaging & Other	Neonatal Cephalic								
	Adult Cephalic								
	Trans-rectal	P	P	P		P	P	Р	Note 1, 2, 4,6,7
	Trans-vaginal	₽	P	P		P	P	P	Note 1, 2, 4,6,7
	Trans-urethral								
	Trans-esoph. (non-Card.)							1	
	Musculo-skeletal (Conventional)		l						
	Musculo-skeletal (Superficial)								
	Intravascular								
	Cardiac Adult								
	Cardiac Pediatric							1	<u> </u>
Cardiac	Intravascular (Cardiac)								
	Trans-esoph. (Cardíac)								***
	Intra-cardiac								
Peripheral	Peripheral vessel								
ressel	Other (Specify***)	P	P	P		P	P	P	Note 1, 2, 4.6,7

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments: Combined modesB+M, PW+B, Color + B, Power + B, PW +Color + B, Power + PW +B.
*Intraoperative includes abdominal, thoracic, and vascular.
**Small organ-breast, thyroid, testes.
***Other use includes Urology.
Note 1: Tissue Harmonic Imaging.
Note 2: Smart3D
Note 3: 4D(Real-time 3D)
Note 4: iScape
Note 5: TDI
Note 6: Color M
Note 7: Biopsy Guidance
Note 8: Elastography
Note 9: Contrast imaging(contrast agent for LVO)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

V11-3WE

Intended Use:

Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

(Clinical Application					Mode	e of Operation	n	
General (Track I Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)
Ophthalmic	Ophthalmic								•
	Fetal	P	P	P		P	P	P	Note 1, 2, 4,6,7
	Abdominal								
	Intra-operative (Specify*)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric								
	Small Organ (Specify**)								
Fetal Imaging &	Neonatal Cephalic								
Other	Adult Cephalic								
	Trans-rectal	P	P	P		P	P	P	Note 1, 2, 4,6,7
	Trans-vaginal	P	P	P		P	P	P	Note 1, 2, 4,6,7
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)		L						
	Intravascular								
	Cardiac Adult								
	Cardiac Pediatric								
Cardiac	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)								
	Intra-cardiac								
Peripheral	Peripheral vessel								
vessel	Other (Specify***)	P	P	P		P	Р	P	Note 1, 2, 4,6,7

Additional comments:	Combined modes—B+M、PW+B、Color+B、Power+B、PW+Color+B、Power+PW+B。
*Intraopera	ive includes abdominal, thoracic, and vascular.
**Small org	an-breast, thyroid, testes.
***Other us	e includes Urology.
Note 1: Tiss	ue Harmonic Imaging.
Note 2: Sma	rt3D
Note 3: 4D(1	Real-time 3D)
Note 4: iSca	pe
Note 5: TDI	
Note 6: Colo	r M.
Note 7: Biop	sy Guidance
Note 8: Elas	ography
Note 9: Cont	rast imaging(contrast agent for LVO)
(PLEASE DO NOT WE	UTE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

System: DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer: L7-31

Intended Use: Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

	linical Application					Mode	e of Operation	on	
General (Track l Only)	Specific (Track 1 & 3)	В	м	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)
Ophthalmic	Ophthalmic								
	Fetal								
	Abdominal	P	P	P		P	P	P	Note 1,2, 4,6,7
	Intra-operative (Specify*)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric	P	P	P		P	P	P	Note 1,2, 4,6,7
	Small Organ (Specify**)	P	P	P		P	P	P	Note 1,2, 4,6,7
	Neonatal Cephalic	P	P	P		P	P	P	Note 1,2, 4,6,7
Other	Adult Cephalic	·							
	Trans-rectal								-
	Trans-vaginal								
	Trans-urethral								·-
	Trans-esoph. (non-Card.)								-
	Musculo-skeletal (Conventional)	P	P	P		P	P	P	Note 1,2, 4,6,7
	Musculo-skeletal (Superficial)	P	P	P		P	P	Р	Note 1,2, 4,6,7
	Intravascular								
	Cardiac Adult								 · ·
	Cardiac Pediatric								
Cardiac	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)								
	Intra-cardiac								
Peripheral	Peripheral vessel	P	P	P		P	P	P	Note 1,2, 4,6,7
ressel	Other (Specify***)								
N=new indication	n: P=previously cleared by FDA;	E=a	dded	under A	ppendi	хE			
dditional comm	ents: Combined modesB+M, F	W+E	, Co	olor + B	Powe	r + B、PV	V +Color+ B	· Power + I	W +B.

Additional comments: Combined modes-B+M, PW+B, Color + B	· Power + B · PW +Color+ B ·	Power + PW +B.
*Intraoperative includes abdominal, thoracic, and vascular		
**Small organ-breast, thyroid, testes.		
***Other use includes Urology.		,
Note 1: Tissue Harmonic Imaging.		
Note 2: Smart3D	·	
Note 3: 4D(Real-time 3D)		
Note 4: iScape		
Note 5: TDI		
Note 6: Color M		· · · · · · · · · · · · · · · · · · ·
Note 7: Biopsy Guidance		
Note 8: Elastography		
Note 9: Contrast imaging(contrast agent for LVO)		
		

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

System: DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer: P10-4E

Intended Use: Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

C	linical Application	Mode of Operation										
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)			
Ophthalmic	Ophthalmic								·			
	Fetal				•							
	Abdominal	N	N	N	N	N	N	N	Note 1, 2,4,5,6			
	Intra-operative (Specify*)											
	Intra-operative (Neuro)											
	Laparoscopic											
	Pediatric	N	N	N	N	N	N	N	Note 1, 2,4,5,6			
	Small Organ (Specify**)											
Fetal Imaging &	Neonatal Cephalic	N	N	N	N	N	N	N	Note 1, 2,4,5,6			
Other	Adult Cephalic	N	N	N	N	N	N	N	Note 1, 2,4,5,6			
	Trans-rectal							1				
	Trans-vaginal		L					1				
	Trans-urethral											
	Trans-esoph. (non-Card.)								-			
	Musculo-skeletal (Conventional)											
	Musculo-skeletal (Superficial)											
	Intravascular											
	Cardiac Adult	N	N	N	N	N	N	N	Note 1, 2,4,5,6			
·	Cardiac Pediatric	N	N	N	Ŋ	N	N	N	Note 1, 2,4,5,6			
Cardiac	Intravascular (Cardiac)											
	Trans-esoph. (Cardiac)											
	Intra-cardiac											
Peripheral	Peripheral vessel											
vessel	Other (Specify***)								· · · · · · · · · · · · · · · · · · ·			

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments: Combi	ned modesB+M, PW+B	••	 PW +Color+ B.	Power + PW +B.
	ludes abdominal, thoracic,		 	
**Small organ-brea	st, thyroid, testes,		 	
***Other use inclu	les Urology.			
Note 1: Tissue Har	nonic Imaging.		-	
Note 2: Smart3D			 	····
Note 3: 4D(Real-tir	ne 3D)			
Note 4: iScape				1-11
Note 5: TDI				
Note 6: Color M			 	
Note 7: Biopsy Gui	dance	 -	 	
Note 8: Elastograph	у			
Note 9: Contrast in	aging(contrast agent for LV	/O)		,

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

P7-3TE

Intended Use: Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

	Unical Application					Mode	e of Operation	on	
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)
Ophthalmic	Ophthalmic								
	Fetal								
	Abdominal								
	Intra-operative (Specify*)								
	Intra-operative (Neuro)								
	Laparoscopic						<u> </u>		-
	Pediatric								
	Small Organ (Specify**)								
	Neonatal Cephalic								
Other	Adult Cephalic								
	Trans-rectal								
	Trans-vaginal		"						
	Trans-urethral			i i					
	Trans-esoph. (non-Card.)								-
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)								
	Intravascular								
	Cardiac Adult								
	Cardiac Pediatric								
Cardiac	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)	N	N	N	N	N	N	N	Note 1, 4,5,6
	Intra-cardiac								
Peripheral	Peripheral vessel								
ressel	Other (Specify***)								
I=new indication	n: P=previously cleared by FDA:	E=2	added	under A	Appendi	хE			
	nents: Combined modes-B+M. F						V +Color+ E	B . Power + I	PW +B.
*Intr	aoperative includes abdominal, tho	гасіс,	and a	vascular	:				
**Sm	all organ-breast, thyroid, testes,					-		•	

***Other use includes Urology. Note 1: Tissue Harmonic Imaging. . Note 2: Smart3D Note 3: 4D(Real-time 3D) Note 4: iScape Note 5: TDI Note 6: Color M Note 7: Biopsy Guidance Note 8: Elastography Note 9: Contrast imaging(contrast agent for LVO)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

CW2s

Intended Use:

Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

(linical Application					Mod	e of Operation	n	
General (Track l Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)
Ophthalmic	Ophthalmic								
	Fetal								
	Abdominal								
	Intra-operative (Specify*)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric				N			i i	
	Small Organ (Specify**)								
Fetal Imaging &	Neonatal Cephalic								
Other	Adult Cephalic				N				
-	Trans-rectal								
	Trans-vaginal								
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)								
	Intravascular								
	Cardiac Adult				N				
	Cardiac Pediatric				N				
Cardiac	Intravascular (Cardiac)								·
	Trans-esoph. (Cardiac)								
	Intra-cardiac								
Peripheral	Peripheral vessel				N				
vessel	Other (Specify***)							İ	·

N=new indication; P=previously cleared by FDA; E=added under Appendix E

Additional comments: Combined modes—B÷M、PW+B、Color+B、Power+B、PW+Color+B、Power+PW+B。

*Intraoperative includes abdominal, thoracic, and vascular

**Small organ-breast, thyroid, testes,

***Other use includes Urology.

Note 1: Tissue Harmonic Imaging.

Note 2: Smart3D

Note 3: 4D(Real-time 3D)

Note 4: iScape

Note 5: TDI

Note 6: Color M

Note 7: Biopsy Guidance

Note 8: Elastography

Note 9:Contrast imaging(contrast agent for LVO)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

System: DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer: CW5:

Intended Use: Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

	Clinical Application					Mode	of Operation	n	
General (Track l Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify
Ophthalmic	Ophthalmic								
	Fetal								
	Abdominal								
	Intra-operative (Specify*)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric				N				
	Small Organ (Specify**)								-
Fetal Imaging &	Neonatal Cephalic								
Other	Adult Cephalic				N				
	Trans-rectal								
	Trans-vaginal								
	Trans-urethral								
	Trans-esoph. (non-Card.)								•
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)								
	Intravascular								
	Cardiac Adult				N				•
	Cardiac Pediatric				N				
Cardiac	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)								
	Intra-cardiac								
eripheral	Peripheral vessel								
ressel	Other (Specify***)								

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments: Combined modes—B+M、PW+B、Color + B、Power + B、PW +Color+ B、Power + PW + B。

*Intraoperative includes abdominal, thoracic, and vascular

**Small organ-breast, thyroid, testes,

***Other use includes Urology.

Note 1: Tissue Harmonic Imaging.

Note 2: Smart3D

Note 3: 4D(Real-time 3D)

Note 4: iScape

Note 5: TDI

Note 6: Color M

Note 7: Biopsy Guidance

Note 8: Elastography

Note 9: Contrast imaging(contrast agent for LVO)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

Concurrence of CDRH, Office of In Vitro Diagnostics and Radiological Health (OIR)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

Intended Use:

Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

C	Unical Application					Mode	of Operation	n	• •
General (Track l Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)
Ophthalmic	Ophthalmic								
	Fetal								•
	Abdominal	N	N	N	N	N	N	N	Note 1, 2,4,5,6
	Intra-operative (Specify*)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric	N	N	N	N	N	N	N	Note 1, 2,4,5,6
	Small Organ (Specify**)								
Fetal Imaging &	Neonatal Cephalic	N	N	N	N	N	N	N	Note 1, 2,4,5,6
Other	Adult Cephalic	N	N	N	N	N	N	N	Note 1, 2,4,5,6
	Trans-rectal								
	Trans-vaginal								
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)	N	N	N	N	N	N	N	Note 1, 2,4,5,6
l	Musculo-skeletai (Superficial)								
	Intravascular				-				
	Cardiac Adult	N	N	N	N	N	N	N	Note 1, 2,4,5,6
	Cardiac Pediatric	N	N	N	N	N	N	N	Note 1, 2,4,5,6
Cardiac	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)								
	Intra-cardiac								
Peripheral	Peripheral vessel							·	·
vessel	Other (Specify***)								

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments: Combined modes-B÷M, PW+B, Color + B, Po	ower + B.	PW +Color+ B.	Power + PW +B
*Intraoperative includes abdominal, thoracic, and vascular		· ·	
**Small organ-breast, thyroid, testes,			
***Other use includes Urology.			
Note 1: Tissue Harmonic Imaging			
Note 2: Smart3D			
Note 3: 4D(Real-time 3D)			
Note 4: iScape			
Note 5: TDI			-
Note 6: Color M			
Note 7: Biopsy Guidance			
Note 8: Elastography			
Note 9: Contrast imaging(contrast agent for LVO)			······································
PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOT	THER PAC	SE NEEDED)	

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

P4-2NE

Intended Use: Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

	Clinical Application					Mode	e of Operation	on	
General (Track 1 Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)
Ophthalmic	Ophthalmic								
	Fetal								
	Abdominal	N	N	N	N	N	N	N	Note 1, 2,4,5,6,7
	Intra-operative (Specify*)								140
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric	N	N	N	N	N	N	N	Note 1, 2,4,5,6,7
	Small Organ (Specify**)								
Fetal Imaging &	Neonatal Cephalic								·
Other	Adult Cephalic	N	N	N	N	N	N	N	Note 1, 2,4,5,6,7
	Trans-rectal								
	Trans-vaginal								· ·
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)								
	Intravascular								
	Cardiac Adult	N	N	N	N	N	N	N	Note 1, 2,4,5,6,7,9
	Cardiac Pediatric	N	Ν	N	N	N	N	N	Note 1, 2,4,5,6,7
Cardiac	Intravascular (Cardiac)					-			- · · · · ·
	Trans-esoph. (Cardiac)								
	Intra-cardiac								<u> </u>
Peripheral	Peripheral vessel								
vessel	Other (Specify***)							Ì	-

N=new indication: P=previously cleared by FDA: E=added under Appendix E

Additional comments:	Combined modes-B+M、PW+B、Color+B、Power+B、PW+Color+B、Power+PW+B。
*Intraopera	tive includes abdominal, thoracic, and vascular
**Small org	an-breast, thyroid, testes,
***Other us	e includes Urology.
Note 1: Tiss	ue Harmonic Imaging.
Note 2: Sma	rt3D
Note 3: 4D(Real-time 3D)
Note 4: iSca	pe
Note 5: TDI	
Note 6: Cole	n M
Note 7: Biog	sy Guidance
Note 8: Elas	tography
Note 9: Con	trast imaging(contrast agent for LVO)
PLEASE DO NOT WI	UTE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE NEEDED)

DC-8/DC-8 PRO/DC-8 CV/DC-8 EXP/DC-8S Diagnostic Ultrasound System

Transducer:

CB10-4E

Intended Use: Diagnostic Ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation							
General (Track l Only)	Specific (Track 1 & 3)	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Combined (specify)	Other (specify)
Ophthalmic	Ophthalmic								
Fetal Imaging & Other	Fetal								
	Abdominal								
	Intra-operative (Specify*)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric								
	Small Organ (Specify**)								
	Neonatal Cephalic								
	Adult Cephalic								
	Trans-rectal	N	N	N		N	N	N	Note 1, 2, 4,6,7
	Trans-vaginal								
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)								
	Intravascular								
Cardiac	Cardiac Adult								
	Cardiac Pediatric								
	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)								
	Intra-cardiac								
Peripheral vessel	Peripheral vessel								
	Other (Specify***)	N	N	N		N	N	N	Note 1, 2, 4,6,7

N=new indication; P=previously cleared by FDA; E=added under Appendix E

Additional comments: Combined modesB+M, PW+B, Color + B, Power + B, PW +Color + B, Power + PW +B.	_
*Intraoperative includes abdominal, thoracic, and vascular.	
**Small organ-breast, thyroid, testes.	
***Other use includes Urology.	
Note 1: Tissue Harmonic Imaging.	
Note 2: Smart3D	_
Note 3: 4D(Real-time 3D)	
Note 4: iScape	_
Note 5: TDI	_
Note 6: Color M	
Note 7: Biopsy Guidance	_
Note 8: Elastography	_
Note 9: Contrast imaging(contrast agent for LVO)	
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE MEEDED)	

moth

(Division Sign-Off)
Division of Radiological Health
Office of In Vitro Diagnostics and Radiological Health

510(k)

Concurrence of CDRH, Office of In Vitro Diagnostics and Radiological Health (OIR)

K132341